

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/10481

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ H05B3/68, H05B3/20, H05B3/30, H05B3/10, H01L21/02,
H01L21/205, H01L21/302

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ H05B3/68, H05B3/20, H05B3/30, H05B3/10, H01L21/02,
H01L21/205, H01L21/302

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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Kokai Jitsuyo Shinan Koho 1971-2003 Toroku Jitsuyo Shinan Koho 1994-2003

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y X	JP 2000-243542 A (NHK Spring Co., Ltd.), 08 September, 2000 (08.09.00), Full text; Figs. 1 to 7 & US 6180931 B1	1 2-3
Y	JP 2002-141257 A (Ibiden Co., Ltd.), 17 May, 2002 (17.05.02), Full text; Figs. 1 to 3 & WO 02/99855 A	1

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:
"A" document defining the general state of the art which is not
considered to be of particular relevance
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date
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means
"P" document published prior to the international filing date but later
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priority date and not in conflict with the application but cited to
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"X" document of particular relevance; the claimed invention cannot be
considered novel or cannot be considered to involve an inventive
step when the document is taken alone
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considered to involve an inventive step when the document is
combined with one or more other such documents, such
combination being obvious to a person skilled in the art
"&" document member of the same patent family

Date of the actual completion of the international search
10 December, 2003 (10.12.03)

Date of mailing of the international search report
24 December, 2003 (24.12.03)

Name and mailing address of the ISA/
Japanese Patent Office

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